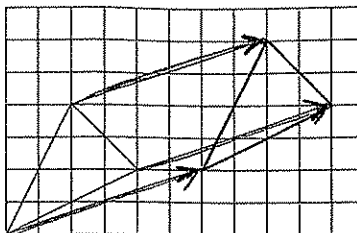


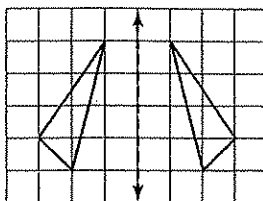
Review 70

Exploring Transformations

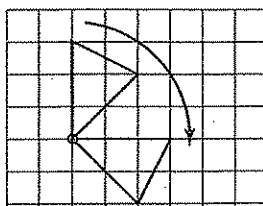
In a *translation*, or slide, every point of a figure moves the same distance and in the same direction.



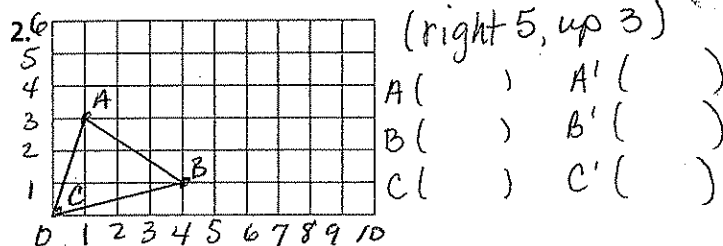
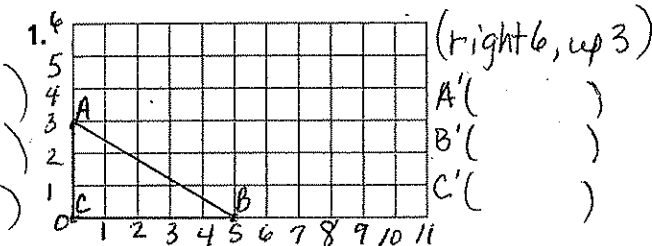
In a *reflection*, or flip, a figure is flipped across a line. The new figure is a mirror image of the original figure.



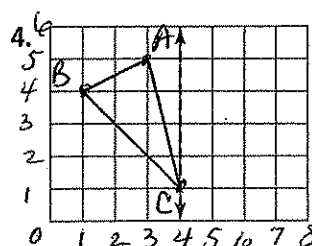
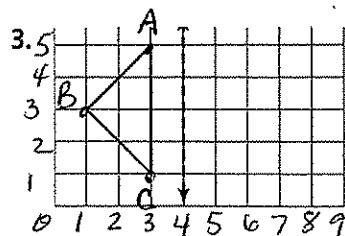
In a *rotation*, a figure is turned, or rotated about a point. You can describe a rotation in terms of degrees. The triangle has been rotated 90° clockwise.



Draw a translation of each triangle.



Copy each triangle. Draw its reflection over the given line.



Circle all rotations of the first shape. State the number of degrees you must rotate the shape.



Name _____ Date _____

Table Top Transformations

Chart (TTT - 1)

Give coordinates of original position, then the coordinates of the transformed shape.
The rotation is 90° clockwise about the origin. The reflection is about the y-axis. *and x-axis.*

Shape	Original Position	Translate 3 right, 1 down	Rotate 90° Clockwise	Reflect across y-axis	<i>Reflect across x-axis</i>
Rectangle	A(2, 3) B(2, 6) C(,) D(,)	A(,) B(,) C(,) D(,)	A(,) B(,) C(,) D(,)	A(,) B(,) C(,) D(,)	A() B() C() D()
Right Triangle	H(0, 3) I(0, 0) J(,)	H(,) I(,) J(,)	H(,) I(,) J(,)	H(,) I(,) J(,)	H() I() J()
Isosceles Triangle	E(-2.5, 0) F(,) G(-1, -5)	E(,) F(,) G(,)	E(,) F(,) G(,)	E(,) F(,) G(,)	E() F() G()
Trapezoid	K(,) L(6, -1) M(8, -1) N(,)	K(,) L(,) M(,) N(,)	K(,) L(,) M(,) N(,)	K(,) L(,) M(,) N(,)	K() L() M() N()